UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



MEMORANDUM

10/30/2020

SUBJECT: Product Chemistry Review for Neogen Viroxide Super EPA Reg. No.: 66171-RNA

FROM: Lynette T. Umez-Eronini Lynette T. Umez-Eronini

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

THRU: Karen P. Hicks, Team Leader

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

TO: Jacqueline Hardy, PM Team 34 / Karen Leavy

Regulatory Management Branch II Antimicrobials Division (7510P)

Registrant: Preserve

International

Action Code: A572

Agency Due Date:

2/22/2020

DP No.: 458031

Submission No.: 1051299

E-Sub No.: 49751 Classification: EP

Process: Integrated

system

Pesticide type: Antimicrobial

MRID(s):50934800, 50934816, 50934817, 50934818, 50934820, 50934821, 50934822, 50934823, 50934824, 50934825, 50934830, 50934833, 50934834, 50936101

Formulation from label					
PC code(s)	CAS #(s)	Active Ingredient(s)	% weight		
063604	10058-23-8	Potassium peroxymonosulfate	22.41		
013905	7647-14-5	Sodium chloride	1.50		
		Other Ingredients	76.09		
		Total	100.00		

I. BACKGROUND

The Registrant, Preserve International, has submitted an application for pesticide registration for their product: Neogen Viroxide Super EPA Reg. No. 66171-RNA.

II. RELEVANT DOCUMENTS

	RECEIVED	N/A
EPA FORM 8570-1 – Application for Pesticide-Registration (4/22/2020)	\boxtimes	
EPA FORM 8570-27 – Formulator's Exemption Statement		\boxtimes
EPA FORM 8570-34 – Certification with Respect to Citation of Data (8/5/2020)	×	
EPA FORM 8570-35 – Data Matrix (7/20/2020)		
Cover letter (4/28/2020)		
Transmittal document (April 29, 2020)		
Proposed CSF BASIC, ALTERNATE 1, ALTERNATE 2 (10/27/2020)		
Proposed label, (6/12/2020)		
Certification for Pilot Fragrance Notification Program		\boxtimes
REFERENCED: CSF		
Comments:		

III. FINDINGS

a. Product Formulation:

	TGAI	MUP	EUP	Food use	Non-food
					use
Non-integrated					
Integrated			\boxtimes		\boxtimes
Active Ingredients(s)			Nominal	Upper limit	Lower
			limit		
Potassium Peroxymonosulfa	22.41	23.08	21.73		
Sodium Chloride	1.50	1.57	1.42		
			YES	NO	N/A

1. The certified limits of all ingredients are within 40	\boxtimes	
CFR standard certified limits.		
2. Wider certified limits were requested and rationale		\boxtimes
was accepted.		
3. The nominal concentration(s) of the active	\boxtimes	
ingredient is in agreement with the label.		
4. The chemical IDs and analytical information for	\boxtimes	
density, pH, and flammability are consistent with		
Series 830 Group B data.		
5. All inert ingredients are approved for non-food use	\boxtimes	
pesticide formulations.		
6. The impurities present >0.1% are identified.		\boxtimes
7. Impurities of toxicological significance have an		\boxtimes
upper certified limit.		

b. Product Label:

	Yes	NO	N/A
The formula contains one of the following:			
1. 10% or more of petroleum distillate		\boxtimes	
2. 1.0% or more of methyl alcohol		\boxtimes	
3. Sodium nitrite at any level		\boxtimes	
4. A toxic list 1 inert at any level		\boxtimes	
5. Arsenic in any form		\boxtimes	
6. If yes to 1-5, then the inert ingredient list contains a relevant			\boxtimes
footnote			
7. Appropriate warning statements regarding flammability or			\boxtimes
explosive characteristics of the product are included on the			
label			
8. The storage and disposal instructions for the pesticide	\boxtimes		
container are in compliance with PR Notice 84-1 for household			
use products or PR Notice 83-3 for all other uses.			
9. The product requires an expiration date at which time the			\boxtimes
nominal concentration falls below the lower certified limit.			

IV. Additional Findings

- 1. Group A product chemistry data requirements applicable to an end-use product have been met (see Table A below).
- 2. The 14-Day Accelerated 830.6317 Storage Stability and 830.6320 Corrosion Characteristics studies require upgrading for not reporting the concentration of active ingredients at start and end of the testing period.

- 3. Group B product chemistry data requirements applicable to an end-use product have been met (see Table B below), except the 830.6317 Storage Stability and 830.6320 Corrosion Characteristics guidelines. The unmet guidelines must be sent upon completion.
- 4. Basic and Alternate #1 and #2 CSFs dated 10/27/2020 are acceptable.

V. Conclusion

The Product Science Branch of Antimicrobials Division finds Group A and B Product Chemistry Data requirements have been met, except the 830.6317 Storage Stability and 830.6320 Corrosion Characteristics guidelines. The unmet guidelines must be sent upon completion. Basic and Alternate # 1 and #2 CSFs dated 10/7/2020 are acceptable.

VI. Table A: Series 830 guidelines – Group A

OPPTS#	Name	Status	MRID
830.1550	Product Identity & Composition	Acceptable	50934816 50934834
830.1600	Description of materials	Acceptable	50934816 50934834
830.1620	Description of production process	Acceptable	
830.1650	Description of formulation process	Acceptable	50934816
830.1670	Discussion of formation of impurities	Acceptable	50934816
830.1700	Preliminary analysis	Acceptable	50934817 50936101
830.1750	Certified limits	Acceptable	50934816
830.1800	Enforcement analytical method	Requires upgrading	50934818
830.1900	Submittal of samples	Acceptable	Registrant's email, dated 6/16/2020

^{*}Product ingredient source information may be entitled to confidential treatment*

VII. Table B: Series 830 guidelines – Group B

OPPTS#	Name	Study Findings/Comment				Status	MRID
830.6302	Color	Not required for end use product. Registrant reported, green/blue color				Not applicable	50934820
830.6303	Physical state	Powder			Acceptable	50934820	
830.6304	Odor	Not required for end use product. Registrant reported a sweet odor (synthetic apple fragrance.				Not applicable	50934820
830.6313	Stability to normal & elevated temperatures, metals & metal ions	The product is not TGAI				Not applicable	N/A
830.6314	Oxidation/Reduction	Waiver req			Acceptable	50934821	
830.6315	Flammability	Waiver req				Acceptable	50934822
830.6316	Explodability	Waiver requested. Product is a free-flowing powder that is not explosive on its own.				Acceptable	50934823
830.6317	Storage stability (14- Day Accelerated)	Study failed to report the concentration of both active ingredients at start and end of the study.				Requires upgrading	50935801
830.6319	Miscibility	Waiver requested. Product is a powder that is intended to be mixed with water and should not be mixed with solvents.			Acceptable	50934824	
50934820	Corrosion characteristics	Study requires upgrading since it is done along with the Storage Stability.			Requires upgrading	50935801	
830.6321	Dielectric breakdown voltage	Waiver Requested. It is not recommended that product solutions be used on electrical equipment.			Acceptable	50934825	
830.7000	рН	2.40 at 20C				Acceptable	50935801
830.7050	UV/Visible absorption	Not required for MUP or EP			Not applicable	N/A	
830.7100	Viscosity	Viscosity, mPa·s at	50 rpm 7.40 ±0.00	60 rpm 8.53 ±0.00	100 rpm 11.28 ±0.05	Acceptable	50934820

		Viscosity, 6.36 8.88 mPa·s at ±0.05 ±0.00 40±0.1°C		
830.7200	Melting point	Not required for MUP or EP	Not applicable	N/A
830.7220	Boiling point	Not required for MUP or EP	Not applicable	N/A
830.7300	Density/relative	Avg Pour Density – 1.1134g/mL Avg Tap Density – 1.1926g/mL	Acceptable	50934820
830.7370	Dissociation constants in water	Not required for MUP or EP	Not applicable	N/A
830.7520	Particle size	Not required for MUP or EP	Not applicable	N/A
830.7550/ 7560/ 7570	Partition coefficient	Not required for MUP or EP	Not applicable	N/A
830.7840/ 7860	Water solubility	Not required for MUP or EP	Not applicable	N/A
830.7950	Vapor pressure	Not required for MUP or EP	Not applicable	N/A

CONFIDENTIAL ATTACHMENT



Product ingredient source information may be entitled to confidential treatment



From: <u>Eronini, Lynette</u>
To: <u>Leavy, Karen</u>

Cc: Hicks, Karen; Hardy, Jacqueline

Subject: RE: 10-day Product Chemistry Technical Screen Failure letter for EPA File Symbol 66171-RNA - TECHNICAL

SCREEN FOR 66171-RNA_D458031_Neogen Viroxide PASSED

Date: Tuesday, June 16, 2020 2:28:00 PM

Attachments: <u>image001.png</u>

Karen,

Registrant's response to the 830.1900 guideline overcame the technical screen failure. From a chemistry point of view, the technical screen for 66171-RNA_D458031_Neogen Viroxide passed. Note: Passing a technical screen is not an indication of a favorable chemistry review.

Lynette T. Umez-Eronini

From: Leavy, Karen <Leavy.Karen@epa.gov> Sent: Tuesday, June 16, 2020 1:43 PM

To: Eronini, Lynette < Eronini. Lynette@epa.gov>

Subject: FW: 10-day Product Chemistry Technical Screen Failure letter for EPA File Symbol 66171-

RNA

Good afternoon Lynette,

Let me know if this will do it for you. Please read the email below.

KML

From: Patrice Fields < <u>PFields@neogen.com</u>>

Sent: Tuesday, June 16, 2020 1:36 PM **To:** Leavy, Karen < Leavy, Karen@epa.gov>

Subject: RE: 10-day Product Chemistry Technical Screen Failure letter for EPA File Symbol 66171-

RNA

Hi Karen,

Preserve International is in receipt of the 10-day product chemistry technical screen failure letter for 66171-RNA. The letter finds that Preserve International did not address OPPTS guideline 830.1900, submittal of samples. Preserve International <u>will send samples upon request</u>. If further actions are required to address this deficiency letter, please let me know.

Patrice



Patrice R. Fields

Registration Manager Cleaners and Disinfectants

(517) 372-9200 x 2315 | (800) 234-5333 (USA & Canada) 620 Lesher Place, Lansing, MI USA 48912

pfields@neogen.com | www.neogen.com

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From: Leavy, Karen [mailto:Leavy.Karen@epa.gov]

Sent: Tuesday, June 16, 2020 12:49 PM **To:** Patrice Fields < <u>PFields@neogen.com</u>>

Subject: Re: 10-day Product Chemistry Technical Screen Failure letter for EPA File Symbol 66171-

RNA

Good afternoon Ms. Fields,

Attached above is the 10-day Product Chemistry Technical Screen Failure for EPA File Symbol 66171-RNA.

KML